Second Garden Creek TMDL Meeting Agenda

Welcome and Introductions Joey O'Quinn VA DMME

General TMDL Discussion Allen Newman VA DEQ

Garden Creek TMDL

Rod Bodkin Map Tech
Dr. Jim Mudge CEC

Questions and Concerns





SECOND PUBLIC MEETING

FOR THE

Garden Cr. Bacteria and Benthic TMDL Development

Allen Newman, PE DEQ- Southwest Regional Office



<u>Overview</u>

- Department of Environmental Quality
 - 1. Conducts Water Sampling
 - 2. Assess the data by comparing it to standards
 - 3. Problem (Impaired) waters are listed In an EPA report called the 303(d) Total Maximum Daily Load (TMDL) List

TMDL required by State and Federal Law

Garden Creek

- Two impairments
 - Aquatic Life (benthic)

Recreational (bacterial)





Designated Uses

Recreation (swimming and boating)

Aquatic Life
balanced, indigenous including game fish



Wildlife

Edible natural resources

Fish

Shellfish (on the coast)







Water Quality Standards

Garden Creek Not Supporting <u>Aquatic Life Use</u> or <u>Recreation Use</u>

■ **General Standard** (Benthic) (9 VAC 25-260-20): "the propagation and growth of a balanced, indigenous population of aquatic life"

"All state waters shall be free from substances...which are harmful to human, animal, plant, or aquatic life."

■ Bacteria Standard (9 VAC 25-260-170) " E. Coli no more than 235 bacteria per 100 ml



What is a **TMDL** or **Total Maximum Daily Load?**

- Amount of a pollutant that a waterbody can receive and still meet water quality standards
- It is pollutant specific
 - Aquatic Life Stressors
 - Bacteria
- It is a process to restore impaired waters
- A special study that:
 - Identifies all significant pollution sources,
 - Calculates amount of pollution from each source, and
 - Calculates pollution reductions, by source, needed to attain water quality standards.

Where are We Now?

- First public meeting on Nov 9
 - Present information about impairments, watershed land uses and discharges, and solicit public comment
- Second meeting
 - Provide final draft of the report which list details of reductions needed
 - Seek Public Comment
 - Where do we spend money first

What Next?

Implementation Plan

We Are Here

TMDI Study



• Identifies permit controls, best management practices, or remediation options needed to make necessary pollutant reductions

Total Maximum Daily Load





Water quality

- Calculates amounts from each source
- Tracks pollutants in the system
- Sets maximum pollutant load
- Estimates necessary pollutant reductions





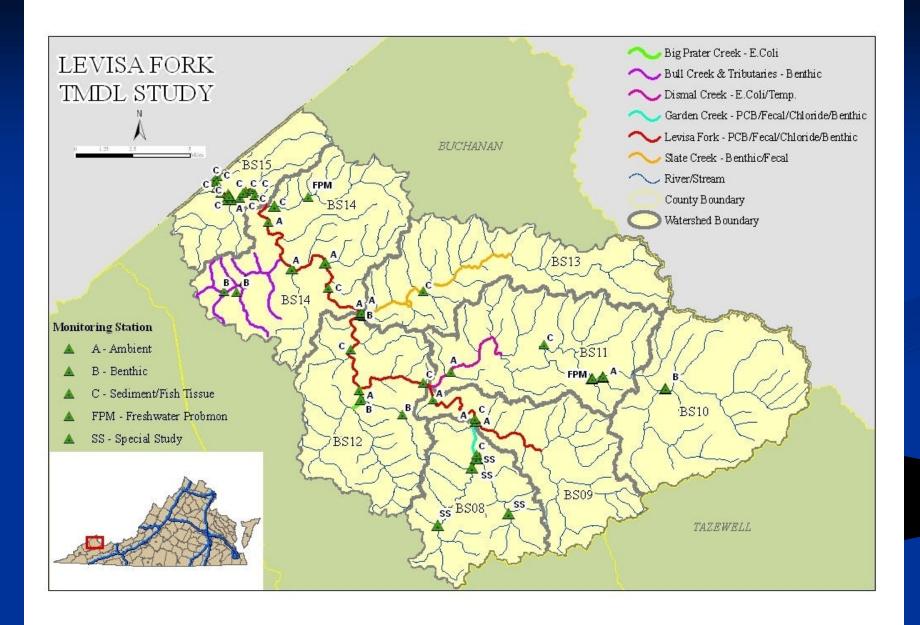


What are the Steps in the TMDL Process?

- 1. Public notice for TMDL development
- 2. TMDL Study with Public Meeting Monitoring and Modeling the Watershed
- 3. Public notice for Draft TMDL
 - Public Meeting with 30-day comment period
- 4. Submit to EPA for approval
- 5. State Water Control Board adoption of TMDL
- 6. TMDL Implementation Plan
- Implementation of Corrective Actions Prescribed by Implementation Plan
- 8. Further Monitoring to Measure Success

Activities Since the Nov 9 Meeting

- 1. TMDL Modeling
- 2. Meeting with the County—Straight pipes
- 3. Interest from Pharmacy and Law Schools
- Interest from public and Big Sandy Watershed Collation
- 5. VDH—initiatives on straight pipes and failing septic tanks



Information

- TMDL
 - Virginia
 - DEQ homepage http://www.deq.virginia.gov/tmdl
 - presentations http://www.deq.virginia.gov/tmdl/mtgppt.html
 - draft reports http://gisweb.deq.virginia.gov/tmdlapp/tmdl draft reports.cfm.
 - Federal
 - EPA homepage http://www.epa.gov/owow/tmdl/

Comment Period

- Ends May 16th
 - Virginia Register publication on April 16th
 - DEQ homepage http://www.deq.virginia.gov/tmdl
 - presentations
 http://www.deq.virginia.gov/tmdl/mtgppt.html
 - draft report on the web by April 16

http://gisweb.deq.virginia.gov/tmdlapp/tmdl_draft_reports.cf
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Thank You!

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